

AMENDMENTS TO THE SPECIFICATION:

Please replace paragraph [0013] with the following amended paragraph:

[0013] FIGURE 4 is a block diagram illustrating a set of processing steps for motion analysis and control in a printer device; [[and]]

Please replace paragraph [0014] with the following amended paragraph:

[0014] FIGURE 5a is [[an]] a partial example of a plurality of motion profiles for use with a printer device[.];

Please add the following new paragraphs after paragraph [0014] :

[0014.1] FIGURE 5b is a continuation of the example of Figure 5a; and

[0014.2] FIGURE 5c is a further continuation of the example of Figure 5a.

Please replace paragraph [0029] with the following amended paragraph:

[0029] Next, the identified time constraints (from step 100) can be applied to state blocks of the various profiles to constrain the profiles to one another. For example, with reference to Figure 2a, the identified time constraints can be applied to state blocks in the first motion profile and the second motion profile to constrain the first motion profile and the second motion profile to one another (step 108). Of course, if only a single motion profile was created or motion profiles are created for motor controlled systems that are not interrelated, step 108 is skipped. Application of a particular time constraint to state blocks of different motion profiles constrains the motion profiles such that the state blocks with the time constraint applied thereto are to occur simultaneously, or with some fixed delay relative to each other (i.e. one may be constrained to be within a specified period of time relative to the other. Similarly, with reference to Figure 3, in the four motor controlled system arrangement, time constraints (from step 200) can be applied to state blocks in two or more of the motion profiles (step 208). Likewise, with reference to Figure 4, in the printer device, time constraints (from step 300) can be applied to the state blocks in the four created motion profiles (step 308). With reference to ~~Figure 5~~ Figures 5a-5c, motion profiles for each of the systems in the

printer device 10 are illustrated in accordance with one embodiment. More particularly, a print drum profile 304', a print head profile 306a', a drum maintenance profile 306b' and a transfix profile 306c' are illustrated and bear reference numerals the same as the sub-steps (see Figure 4) in which these profiles are created with a prime symbol added to the reference numeral. The time constraints appear as text above various state blocks in each of the motion profiles. For example, a "start image" time constraint is shown in the print drum motion profile and in the printer head motion profile.